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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/931,581	08/17/2001	Mamoru Takikita	Q65636	7222
•	7590 05/02/2007 ION, ZINN, MACPEA	EXAMINER		
2100 Pennsylvania Avenue, N.W.			HASHEM, LISA	
Washington, DC 20037			ART UNIT	PAPER NUMBER
			2614	
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			MAIL DATE	DELIVERY MODE
			05/02/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	09/931,581	TAKIKITA, MAMORU			
Office Action Summary	Examiner	Art Unit			
	Lisa Hashem	2614			
The MAILING DATE of this communicate Period for Reply	ntion appears on the cover sheet w	ith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNIC. - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) of the first of the period for reply is specified above, the maximum statut. - Failure to reply within the set or extended period for reply will any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no event, however, may a rication. days, a reply within the statutory minimum of thir ory period will apply and will expire SIX (6) MON, by statute, cause the application to become AE	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed	on <u>07 February 2007</u> .				
2a) ☐ This action is FINAL . 2b	This action is FINAL . 2b)⊠ This action is non-final.				
• • •	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4)⊠ Claim(s) <u>1 and 4-6</u> is/are pending in th	☑ Claim(s) <u>1 and 4-6</u> is/are pending in the application.				
	4a) Of the above claim(s) is/are withdrawn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1 and 4-6</u> is/are rejected.					
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.				
8) Claim(s) are subject to restriction	on and/or election requirement.				
Application Papers					
9) ☐ The specification is objected to by the I	Examiner.				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119		· ·			
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892)	4) ☐ Interview 9	Summary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTC)-948) Paper No(s)/Mail Date			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) 6) Other:					

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1 and 4-6, in the RCE filed on 2-7-07, have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 112

2. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The preamble of claim 1, '...A narrow band communication vehicle-mounted apparatus...', is not represented in the body of claim 1. The claim fails to mention anything about an apparatus mounted on a vehicle. See MPEP 2111.02.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1 and 4-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Pat. No. 5,825,299 by Fuentes et al, hereinafter Fuentes, in view of Hassett.

Regarding claim 1, Fuentes discloses a narrow band communication mounted apparatus (Fig. 4, 116; e.g. transponder) comprising (see Abstract; col. 7, lines 31-42; col. 9, lines 17-30): a radio-communication portion (Fig. 4, 126; e.g. responder) for sending and receiving with a device (Fig. 4, 111; e.g. transceiver) via an antenna (Fig. 4, 115) (col. 7, lines 31-46),

a field intensity measuring portion (Fig. 1, 117; e.g. supply circuit) for detecting a radio field intensity (Fig. 4, 114; e.g. RF interrogation field) (col. 7, lines 42-47), a control microcomputer (Fig. 4, 119; e.g. variable code generator) for controlling various equipment (Fig. 4: 127-131) and a nonvolatile memory (Fig. 4, 120; e.g. readable memory) (col. 8, lines 11-47),

wherein said control microcomputer stores in said nonvolatile memory randomly generated communication registration identification data (e.g. K2) when communication is opened or when said apparatus starts up (col. 7, line 47 – col. 8, line 10), and communication is performed using communication registration identification data stored in said nonvolatile memory in a case where said apparatus is in a communication range when said apparatus starts up (col. 7, line 47 – col. 8, line 10; col. 8, line 59 – col. 9, line 12), wherein said randomly generated communication registration identification data is generated based on the field intensity measured by the field intensity measuring portion (col. 7, lines 42-67).

Fuentes discloses a narrow band communication mounted apparatus or transponder that can be mounted on a human or animal (Fig. 4, 111) communicating with a transceiver (Fig. 4, 111). Fuentes does not disclose a vehicle-mounted apparatus communicating with an on-road device.

Hassett discloses a narrow band communication vehicle-mounted apparatus or in-vehicle component (IVC) (see Abstract; Fig. 2, 16) inherently comprising (col. 12, lines 34-46):

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a radio-communication portion for sending and receiving with an on-road device (Fig. 2, 18) via an antenna (Fig. 14A, 73),

a field intensity measuring portion for detecting a radio field intensity (Fig. 14A, 76), a control microcomputer for inherently controlling various equipment (Fig. 14A, 70), and a nonvolatile memory (Fig. 14A, 88) (col. 8, lines 24-53), wherein said apparatus receives communication registration identification data (new T1 signal) when communication is opened or when said apparatus starts up (when receiving this new T1 signal) (col. 8, lines 35-48; col. 15, lines 7-22), and communication is performed using communication registration identification data received in a case where said radio field intensity is in a communication range when said apparatus starts up (when vehicle decides to exit an upcoming ramp and the apparatus receives a T1 signal data) (col. 14, lines 19-56; col. 14, line 65 - col. 15, line 3).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the apparatus of Fuentes to include vehicle mounted device communicating with an on-road device as taught by Hassett. One of ordinary skill in the art would have been lead to make such a modification to identify a moving object, such as a vehicle, in a competition by mounting the transponder in the vehicle and having the transceiver be mounted on a road to communicate with the vehicle in order to collect data from the vehicle-mounted transponder.

Regarding claim 4, the narrow band communication vehicle-mounted apparatus according to claim 1, wherein Fuentes further discloses said control microcomputer stores in said nonvolatile memory randomly generated communication registration identification data (e.g. K2) only when said apparatus starts up (col. 7, line 47 – col. 8, line 10).

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Regarding claim 5, the narrow band communication vehicle-mounted apparatus according to claim 4, wherein Fuentes further discloses said randomly generated communication registration identification data (e.g. K2) is generated only when the measured field intensity indicates that said apparatus is out of communications range (col. 7, line 62 – col. 8, line 10).

Regarding claim 6, the narrow band communication vehicle-mounted apparatus according to claim 4, wherein Fuentes further discloses said randomly generated communication registration identification data (e.g. K2) is not generated when the measured field intensity indicates that said apparatus is within communications range (col. 9, lines 3-12).

Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please see PTO-892 form.
- 6. Any response to this action should be mailed to:

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Or faxed to:

(571) 273-8300 (for formal communications intended for entry)

Or call:

(571) 272-2600 (for customer service assistance)

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lisa Hashem whose telephone number is (571) 272-7542. The examiner can normally be reached on M-F 8:30-5:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Fan Tsang can be reached on (571) 272-7547. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-2600.

8. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

lh April 26, 2007

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600